Math Practice - Grade 7

M7 Geometry: scale drawings and construction - Scale factor

M7 7.G.1, 7.G.2, 7.G.3

Name: _____ Date: _____

Find the scale factor. Write the answer in the box.

Example: An original side is 10 inches long. The copy side is 50 inches long. What is the scale factor?

How: The scale factor is the copy length divided by the original length. To find a copy length, multiply the original length by the scale factor.

Scale factor 5

1 **A drawing is 7 inches long. The real object is 14 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

2 **A drawing is 8 inches long. The real object is 32 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

3 **An original side is 2 inches long. The copy side is 10 inches long. What is the scale factor?**

Scale factor ☐

4 **A shape is enlarged by a scale factor of 3. The original side is 6 inches long. How long is the copy side?**

Copy length ☐

5 **An original side is 3 inches long. The copy side is 6 inches long. What is the scale factor?**

Scale factor ☐

6 **A drawing is 5 inches long. The real object is 10 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

7 **An original side is 5 inches long. The copy side is 25 inches long. What is the scale factor?**

Scale factor ☐

8 **An original side is 11 inches long. The copy side is 33 inches long. What is the scale factor?**

Scale factor ☐

9 **A drawing is 11 inches long. The real object is 77 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

10 **A drawing is 3 inches long. The real object is 9 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

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Find the scale factor. Write the answer in the box.

Example: A drawing is 8 inches long. The real object is 72 feet long. What is the scale? Write it as 1 inch = ? feet.

How: The scale factor is the copy length divided by the original length. To find a copy length, multiply the original length by the scale factor.

1 inch = 9 feet

1 **A drawing is 6 inches long. The real object is 30 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

2 **An original side is 5 inches long. The copy side is 20 inches long. What is the scale factor?**

Scale factor ☐

3 **A drawing is 3 inches long. The real object is 12 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

4 **A shape is enlarged by a scale factor of 3. The original side is 8 inches long. How long is the copy side?**

Copy length ☐

5 **A drawing is 12 inches long. The real object is 48 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

6 **A drawing is 2 inches long. The real object is 10 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

7 **A drawing is 5 inches long. The real object is 30 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

8 **A drawing is 3 inches long. The real object is 27 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

9 **An original side is 3 inches long. The copy side is 9 inches long. What is the scale factor?**

Scale factor ☐

10 **An original side is 6 inches long. The copy side is 30 inches long. What is the scale factor?**

Scale factor ☐

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Name: _____ Date: _____

Find the scale factor. Write the answer in the box.

Example: An original side is 7 inches long. The copy side is 35 inches long. What is the scale factor?

How: The scale factor is the copy length divided by the original length. To find a copy length, multiply the original length by the scale factor.

Scale factor 5

1 **A drawing is 2 inches long. The real object is 18 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

2 **A drawing is 3 inches long. The real object is 24 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

3 **A drawing is 3 inches long. The real object is 6 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

4 **A shape is enlarged by a scale factor of 4. The original side is 4 inches long. How long is the copy side?**

Copy length ☐

5 **An original side is 5 inches long. The copy side is 10 inches long. What is the scale factor?**

Scale factor ☐

6 **A drawing is 10 inches long. The real object is 60 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

7 **A drawing is 5 inches long. The real object is 25 feet long. What is the scale? Write it as 1 inch = ? feet.**

1 inch = ☐

8 **A shape is enlarged by a scale factor of 5. The original side is 6 inches long. How long is the copy side?**

Copy length ☐

9 **An original side is 4 inches long. The copy side is 20 inches long. What is the scale factor?**

Scale factor ☐

10 **A shape is enlarged by a scale factor of 5. The original side is 9 inches long. How long is the copy side?**

Copy length ☐